

# FORM B2

## EMISSION SOURCE (INTERNAL COMBUSTION ENGINES/TURBINES/GENERATORS)

REVISED 09/22/16

NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate

B2

EMISSION SOURCE DESCRIPTION:		EMISSION SOURCE ID NO:	
		CONTROL DEVICE ID NO(S):	
OPERATING SCENARIO: _____ OF _____		EMISSION POINT (STACK) ID NO(S):	
ENGINE SERVICE	<input type="checkbox"/> EMERGENCY	<input type="checkbox"/> SPACE HEAT	<input type="checkbox"/> ELECTRICAL GENERATION
(CHECK ALL THAT APPLY)	<input type="checkbox"/> PEAK SHAVER	<input type="checkbox"/> OTHER (DESCRIBE): _____	
GENERATOR OUTPUT (KW):		ANTICIPATED ACTUAL HOURS OF OPERATION (HRS/YR):	
ENGINE OUTPUT (HP):			
<b>TYPE ICE:</b>			
<input type="checkbox"/> GASOLINE ENGINE	<input type="checkbox"/> DIESEL ENGINE UP TO 600 HP	<input type="checkbox"/> DIESEL ENGINE GREATER THAN 600 HP	<input type="checkbox"/> DUAL FUEL ENGINE
<input type="checkbox"/> OTHER (DESCRIBE): _____ (complete below)			
<b>ENGINE TYPE</b>			
<input type="checkbox"/> RICH BURN		<input type="checkbox"/> LEAN BURN	
<b>EMISSION REDUCTION MODIFICATIONS</b>			
<input type="checkbox"/> INJECTION TIMING RETARD		<input type="checkbox"/> PREIGNITION CHAMBER COMBUSTION	
<input type="checkbox"/> OTHER _____			
<b>OR</b> <input type="checkbox"/> STATIONARY GAS TURBINE (complete below)		<input type="checkbox"/> NATURAL GAS PIPELINE COMPRESSOR OR TURBINE (complete below)	
<b>FUEL:</b>		<b>ENGINE TYPE:</b>	
<input type="checkbox"/> NATURAL GAS		<input type="checkbox"/> 2-CYCLE LEAN BURN	
<input type="checkbox"/> OIL		<input type="checkbox"/> 4-CYCLE LEAN	
<input type="checkbox"/> OTHER (DESCRIBE): _____		<input type="checkbox"/> TURBINE	
<b>CYCLE:</b>		<input type="checkbox"/> 4-CYCLE RICH BURN	
<input type="checkbox"/> COGENERATION		<input type="checkbox"/> OTHER (DESCRIBE): _____	
<input type="checkbox"/> SIMPLE		<b>CONTROLS:</b>	
<input type="checkbox"/> REGENERATIVE		<input type="checkbox"/> COMBUSTION MODIFICATIONS (DESCRIBE): _____	
<input type="checkbox"/> COMBINED		<input type="checkbox"/> NONSELECTIVE CATALYTIC REDUCTION	
<b>CONTROLS:</b>		<input type="checkbox"/> SELECTIVE CATALYTIC REDUCTION	
<input type="checkbox"/> WATER-STEAM INJECTION		<input type="checkbox"/> CLEAN BURN AND PRECOMBUSTION CHAMBER	
<input type="checkbox"/> UNCONTROLLED		<input type="checkbox"/> UNCONTROLLED	
<input type="checkbox"/> LEAN-PREMIX			
<input type="checkbox"/> OTHER (SPECIFY): _____			

### FUEL USAGE (INCLUDE STARTUP/BACKUP FUEL)

FUEL TYPE	UNITS	MAXIMUM DESIGN CAPACITY (UNIT/HR)	REQUESTED CAPACITY LIMITATION (UNIT/HR)

### FUEL CHARACTERISTICS (COMPLETE ALL THAT ARE APPLICABLE)

FUEL TYPE	BTU/UNIT	UNITS	SULFUR CONTENT (% BY WEIGHT)

### MANUFACTURER'S SPECIFIC EMISSION FACTORS (IF AVAILABLE)

POLLUTANT	NOX	CO	PM	PM10	VOC	OTHER
EMISSION FACTOR LB/UNIT						
UNIT						

DESCRIBE METHODS TO MINIMIZE VISIBLE EMISSIONS DURING IDLING, OR LOW LOAD OPERATIONS:

COMMENTS:

Attach Additional Sheets As Necessary